



## MATERIAL SAFETY DATA SHEET

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### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Product Identification

Product Name: Ricoh Toner Cassette Type 150  
Product Number: 339479  
Chemical Name: Mixture  
CAS Number: 0-00-0

#### Company Identification

Ricoh Corporation  
5 Dedrick Place  
West Caldwell, NJ 07006  
(973) 882-2000, (800) 336-6737 (For product information)  
(800) 336-6737 (For emergencies)

#### **GENERAL USE:**

Ricoh Fax 2700L(FX6), Ricoh Fax 2400L, Ricoh Fax 3700L, Ricoh Fax 4700L,  
SFX3700TE, SFX3700M, Ricoh Fax 4800L, 3800L, SFX4800MD.

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Amount</u>	<u>CAS Number</u>
STYRENE ACRYLIC POLYMER	35.0 %	25036-19-5
*POLYOLEFINE	3.0 %	9003-07-0
POLYESTER RESIN (CAS# CONFIDENTIAL)	17.0 %	0-00-0
IRON OXIDE	44.0 %	1317-61-9
DYE	1.0 %	31714-55-3

#### **MISCELLANEOUS:**

RTECS Number: N/App.

\*Polyolefine is listed on the IARC Monograph. The IARC has evaluated the evidence for the carcinogenicity of Polyolefine as inadequate to determine a carcinogenic risk for humans.

This product contains no known hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### **EXPOSURE GUIDELINES:**

No Information Available.



### 3. HAZARDS IDENTIFICATION

\*\*\*\*\* EMERGENCY OVERVIEW \*\*\*\*\*  
\*  
\* THIS PRODUCT IS NON-HAZARDOUS. \*  
\* \*  
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**PRIMARY ENTRY ROUTES:**

Skin, ingestion, inhalation.

**ACUTE EYE EFFECTS:**

May cause temporary eye discomfort.

**ACUTE SKIN EFFECTS:**

(rabbit): non-irritant.

**ACUTE INHALATION EFFECTS:**

Gasping.

**ACUTE INGESTION EFFECTS:**

Greater than 5g/kg bodyweight, practically non-toxic.

**CARCINOGENICITY:**

See Section II (Polyolefine).

**MEDICAL CONDITION AGGRAVATED BY LONG-TERM EXPOSURE:**

Will not occur.

**CHRONIC EFFECTS:**

A Xerox sponsored chronic inhalation study in rats using a special test toner revealed there were no lung changes at all in the lowest exposure level (1mg/m3), the most relevant level to potential human exposures. A very slight degree of fibrosis was noted in 25% of the animals at the middle exposure level (4mg/m3), while a slight degree of fibrosis was observed in the highest exposure level (16mg/m3) in all animals. These findings are attributed to 'lung overloading', a generic response to excessive amounts of any dust retained in the lungs for a prolonged interval. The special test toner was ten times more respirable than commercially available toner to comply with EPA testing protocol and would not function properly in xerographic equipment.

**MISCELLANEOUS:**

NTP? No IARC Monographs? Yes OSHA Regulated? No.

Signs and Symptoms of Exposure: None under normal conditions of use.



#### 4. FIRST AID MEASURES

**EYE CONTACT FIRST AID:**

Try to remove or flush out with eye drops. If irritation persists, get medical attention.

**SKIN CONTACT FIRST AID:**

Wash thoroughly with soap and water.

**INHALATION FIRST AID:**

Remove from exposure.

**INGESTION FIRST AID:**

Dilute stomach contents with several glasses of water.

**MISCELLANEOUS:**

Ames test result: negative.

#### 5. FIRE FIGHTING MEASURES

**FLAMMABLE PROPERTIES**

COC Flash Point: N/A

Autoignition Temperature: N/A

**FLAMMABLE LIMITS IN AIR**

LEL: N/A

UEL: N/A

**FLAMMABILITY CLASSIFICATION:**

Not applicable.

**EXTINGUISHING MEDIA:**

Carbon dioxide, dry chemicals, foam or water spray may be suitable.

**UNUSUAL FIRE OR EXPLOSION HAZARDS:**

Airborne dispersal of most finely divided organic powders such as toner may form an explosive mixture. Do not incinerate loose or spilled toner.

**FIRE FIGHTING INSTRUCTIONS:**

Special Fire-Fighting Procedures: Airborne dispersal of most finely divided organic powders such as toner may form an explosive mixture. Do not incinerate loose or spilled toner.



## 6. ACCIDENTAL RELEASE MEASURES

### SPILL / LEAK PROCEDURES:

If spilled, sweep up using an approved toner vacuum cleaner with a .5 micron filter or smaller such as the Atrix AAA Toner Vacuum (Ricoh EDP Code: 342MIU). Use of a vacuum cleaner not rated for toner particulate could be a potential fire hazard and/or result in personal injury. Remove residue with soap and water.

## 7. HANDLING AND STORAGE

### STORAGE REQUIREMENTS:

Store in a cool, dry place. Keep out of reach of children.

### MISCELLANEOUS:

Cleanse skin thoroughly after contact, before breaks and meals, and at the end of work periods. Do not handle in areas where wind blows. Flying powder may enter eyes. Minimize inhalation of dust.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### VENTILATION:

Local Exhaust Ventilation: None needed under normal conditions of use.

Special Ventilation Requirements: None needed under normal conditions of use.

Mechanical (general): Adequate ventilation.

Other: None.

### RESPIRATORY PROTECTION:

None needed under normal conditions of use.

### PROTECTIVE CLOTHING / EQUIPMENT:

Protective Gloves: None needed under normal conditions of use.

Eye Protection: None needed under normal conditions of use.

Other Protective Clothing or Equipment: None.

### MISCELLANEOUS:

Work and Hygienic Practices: Minimize breathing dust. Cleanse skin thoroughly after contact, before breaks and meals, and at the end of work periods.



## 9. PHYSICAL AND CHEMICAL PROPERTIES

FORM .....	Powder
COLOR .....	Black
ODOR .....	No odor
BOILING POINT .....	Not applicable C
VAPOR PRESSURE .....	Not applicable psia
VAPOR DENSITY .....	Not applicable (Air = 1)
SOLUBILITY IN WATER .....	Negligible: less than 0.1%
SPECIFIC GRAVITY .....	1.8 (Water = 1)
MELTING/FREEZING POINT .....	No data C
% VOLATILES .....	Not applicable %
EVAPORATION RATE (N-BUAC=1) ....	Not applicable

## 10. STABILITY AND REACTIVITY

### STABILITY:

Stable.

### POLYMERIZATION:

Will not Occur.

### CHEMICAL INCOMPATIBILITIES:

None.

### CONDITIONS TO AVOID:

Not applicable.

### HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon monoxide and other decomposition products in the case of incomplete combustion.

## 11. TOXICOLOGICAL INFORMATION

No information available.

## 12. ECOLOGICAL INFORMATION

No information available.



### 13. DISPOSAL CONSIDERATIONS

**DISPOSAL:**

Used toner should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Disposal regulations vary from locality to locality, therefore, consult your local office of the EPA to determine proper method of disposal. Do not incinerate loose or spilled toner.

### 14. TRANSPORT INFORMATION

PRODUCT LABEL...: Ricoh Toner Cassette Type 150

### 15. REGULATORY INFORMATION

No information available.

### 16. OTHER INFORMATION

Prepared By.....: Corporate Quality Assurance/Environmental  
Administration  
Approved By.....: David Huelbig  
Title.....: Safety Engineer  
Approval Date.....: October 30, 1997  
Supercedes Date...: New  
MSDS Number.....: 0691  
RTN Number.....: 00000083 (Official Copy)

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